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Abstract

Method of data transmission in a communication network with a ring configuration

The invention relates to a method of joint data transmission of digital source data and control data between data sources and data sinks which are subscribers of a uni-directionally operated communication network having a ring configuration, in which source data and control data are transmitted in a format which prescribes a clocked sequence of individual bit groups of the same bit width which are transmitted in a continuous data stream, in each case specific bit positions predetermined by the format are reserved, in which the subscribers sample data in each case with a first sampling frequency and the communication network samples data with a second sampling frequency, which is an integral multiple of the first sampling frequency, in which, within each bit group, at least one contiguous region with a predetermined number of bit positions can be reserved for source data and the contiguous region(s) in each case have a beginning and a defined length and are in each case assigned to a subscriber address, in which at least one contiguous region within a bit group is in each case assigned a significant bit position, which in the case of one of the subscribers is set to a first logic level and in the case of all the other subscribers is set to an opposed, second logic level.

Figure 4